

# Imaging Protocol – CT Pedi Sinus\_Orbits\_Facial Bones

PROTOCOL REVIEW 2025 01/dtf  
Approval Imaging Council January 2025

**CTDI: 0-4yr: ≤ 15mGy 5-16: ≤ 25mGy**

## PT Positioning:

- If possible, tilt the patient's head so that a line connecting the lateral canthus of the eye and the EAC is perpendicular to the CT tabletop.

## Scan Parameters:

- Sinus - Scan from above frontal sinuses through the bottom of top teeth
- Orbits - Scan from above orbital roof through the maxillary sinuses
- Face - Scan from above orbits through the entire mandible

**Setup: LAT scout from no gantry tilt**

**DFOV: Appropriate to patient body habitus**

## PACS SERIES

1. SCOUT
2. BONE AX
3. ST AX
4. BONE COR
5. BONE SAG
6. ST COR
7. ST SAG
8. DOSE REPORT

## Acquisition Parameters

PT AGE	0-5mo	6-18m	19m-6y	7y-14y	15+
Scan Type	AXIAL	AXIAL	AXIAL	Helical	Helical
Scan FOV	PED HEAD	PED HEAD	SM HEAD	SM HEAD	HEAD
mA *Smart mA/ODM	85	135	220	285	355
kVp *kV assist	100	100	100	100	100
Pitch and Speed (mm/rot)	N/A	N/A	N/A	0.984:1 (140.63 mm/s)	0.984:1 (140.63 mm/s)
Detector Coverage *Smart Coverage	120mm*	140mm*	160mm*	40mm	40mm
Thick	1.25mm	1.25mm	1.25mm	1.25mm	1.25mm
Speed	0.28	0.28	0.28	0.28	0.28

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PROTOCOL DESIGNED TO MINIMIZE THE AMOUNT OF RADIATION WHILE MAXIMIZING THE YIELD AND PRODUCE DIAGNOSTICALLY ACCEPTABLE IMAGE QUALITY.

## Reconstruction Parameters

<b>RECON 1 (Bone AX)</b>	<b>3000/500</b>
Algorithm	BONE PLUS
ASIR	50%
Recon Type	HELICAL FULL
Slice Thickness	0.625
Increment	0.625
<b>RECON 2 (ST AX)</b>	<b>400/40</b>
Algorithm	STND
ASIR	50%
Recon Type	HELICAL FULL
Slice Thickness	1.25
Increment	1.25
<b>RECON 3 (BONE REF)</b>	<b>3000/500</b>
Algorithm	BONE PLUS
ASIR	50%
Recon Type	HELICAL PLUS
Slice Thickness	0.625
Increment	0.3125
<b>RECON 4 (ST REF)</b>	<b>400/40</b>
Algorithm	STND
ASIR	50%
Recon Type	HELICAL PLUS
Slice Thickness	0.625
Increment	0.3125

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